



SELECTION & SPECIFICATION DATA

Generic Type	Extended Pot Life Epoxy Coating
Description	A variation of SP-2888 [®] RG. Epoxy / Polyurethane coating in which the pot life has been extended. This enables the Spray Grade to be applied with airless spray equipment. The performance properties are similar to SP-2888 [®] RG. in which the urethane polymer is pre-bonded to the epoxy resin, rendering the coating “isocyanate free”. The synergistic effect of co-polymerizing epoxy and polyurethane produces a coating with the superior adhesion and corrosion resistance of epoxy along with the added toughness and abrasion resistance of polyurethane. This environmentally friendly, 100% solids, & Isocyanate free two component coating system is available in Spray Grade and Brush Grade.
Features	<ul style="list-style-type: none">• Excellent resistance to high temperature cathodic disbonding up to 80°C (176°F)• Excellent adhesion to grit steel surfaces, Fusion Bond Epoxy (FEB), Fiber Reinforced Plastic (FRP), Polyolefin (PP/PE)• 100% Solids, Isocyanate free, environmentally friendly & safe• Good flexibility• Excellent chemical, abrasion and impact resistance• Easily applied by spray, brush or roller
Typical Uses	An internal lining for pipelines carrying crude oil, natural gas or processed water or an exterior coating for pipelines in buried or immersed services.
Color	Grey (0700)
Dry Film Thickness	20 - 50 mils (508 - 1270 microns) DFT Depends upon application. Consult with your SPC Representative
Solids Content	By Volume 100%
Theoretical Coverage Rate	1604 ft ² /gal at 1.0 mils (39.4 m ² /l at 25 microns) 80 ft ² /gal at 20.0 mils (2.0 m ² /l at 500 microns) 32 ft ² /gal at 50.0 mils (0.8 m ² /l at 1250 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 1 g/L
Dry Temp. Resistance	Continuous: 176°F (80°C)
Specific Gravity	Base: 1.68±0.03 Hardener: 1.07±0.03 Mixed Material: 1.53±0.03

SUBSTRATES & SURFACE PREPARATION

Steel	Cleanliness: NACE No. 2 / SSPC SP-10, SA 2.5 (ISO 8501-1) Profile: 62.5 microns minimum to 125 microns maximum (2.5 mils to 5.0 mils)
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SP-2889[®] EPL

PRODUCT DATA SHEET



PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Cathodic Disbondment Resistance (CSA-Z245.20)	28 days @ 25°C (77°F) : 1.97 mmR 28 days @ 65°C (149°F) : 5.78 mmR 28 days @ 80°C (77°F) : 8.00 mmR
Cleanliness: NCE No. 2 / SSPC SP-10, SA 2.5 (ISO 8501-1) Profile: 62.5 microns minimum to 125 microns maximum (2.5 mils to 5.0 mils) (ASTM D454)	>20 MPa (>3000 psi) @ 25°C (77°F)
Dielectric Constant (ASTM D150, 60 cycles)	4.2
Dielectric Strength (ASTM D149)	400 Volt/10 ⁻³ in
Elongation at Break (ASTM D638)	9.0% @ 25°C (77°F)
Impact Resistance (CSA-Z245.20-10)	3.0 J (2.21 ft-lbf) @ 25°C (77°F) 1.5 J (1.11 ft-lbf) @ -30°C (-22°F)
Shore D Hardness (ASTM D2240)	25°C (77°F): 85
Tensile Strength (ASTM D638)	42.7 MPa (6200 psi) @ 25°C (77°F)
Volume Resistivity (ASTM D257)	1.0 x 10 ¹⁴ (ohm-cm)
Water Absorption (ASTM D570, (%), 24h, R.T.)	< 0.1%
Water Vapour Permeability (ASTM D1434)	<0.003 (perm-in)

Chemical Resistance | No change in various chemical solutions (ASTM G20, 90 day immersion, R.T.)

MIXING & THINNING

Mixing	After mixing, a minimum of five (5) minutes induction time is required prior to the spray application. Component Details for Color: Grey (0700): The Base is Grey (0700) and the Hardener is Amber (0908)
Thinning	Do not thin.
Ratio	3:1 Base to Hardener, by Volume
Pot Life	2 hour @ 25°C (77°F)

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Brush Grade	Brush or Roller
Spray Grade	Airless Spray System Graco King 50:1 or manufacture approved equivalent Tip Size: 0.021-0.031



APPLICATION CONDITIONS

Condition	Surface	Ambient
Minimum	50°F (10°C)	-40°F (-40°C)
Maximum	212°F (100°C)	122°F (50°C)

Spray Grade Base and Hardener must be preheated to a temperature of 40°C (104°F) prior to mixing. In cold climates or when fan atomization is difficult, a gravity feed hopper combined with an inline fluid heater may be desired.

Preheating of the substrate is required if the surface to be coated is below 10°C (50°F).

The substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature before proceeding with the coating operation.

CURING SCHEDULE

Surface Temp.	Dry Hard
50°F (10°C)	27 Hours
68°F (20°C)	21 Hours
77°F (25°C)	12 Hours
86°F (30°C)	8.75 Hours
104°F (40°C)	4 Hours
122°F (50°C)	3.33 Hours
140°F (60°C)	85 Minutes
158°F (70°C)	47 Minutes
176°F (80°C)	23 Minutes
194°F (90°C)	9 Minutes

Material Temperature: Base & Hardener: 25° C (77°F). 0.63 mm (22 mils) DFT as per ASTM D-1640

Note: This information is to serve as a guide only. The test results were compiled under laboratory-controlled conditions. Field results may vary due to variable conditions such as radiant heat loss and the cooling effects of wind.

Full Cure | 4 days @ 25°C (77°F)

Maximum 2 hours @ 25°C (77°F) @ 50% RH

Recoat Interval

The recommended recoat intervals are general guidelines only. The recoat intervals may vary significantly due to variable conditions including but not limited to, humidity, surface temperature, and the product application temperature. This product is a one-coat application system. However, if there are areas below the specified thickness and the coating has cured beyond the specified re-coat window, roughening of the surface is necessary to ensure inter-coat adhesion. Contact your SPC representative for assistance in determining minimum and maximum recoat intervals specific to your application.

Touch Dry | 4 hours @ 25°C (77°F)

CLEANUP & SAFETY

Cleanup | Carboline Thinner 2 or SP-100 Equipment Wash

Safety

Refer to SPC's Safety Data Sheet prior to use. Carefully read and follow all safety instructions on labels and packaging. Handle and store material with care in accordance to the Safety Data Sheet. Follow and observe any applicable local or national laws and regulations. Effective Date: October 23, 2018.

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PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Shelf Life	A maximum of 24 months from the date of manufacture if the materials are in unopened containers.
Storage	Store in a cool, dry, well-ventilated area, at temperatures between 5°C (41°F) and 50°C (122°F). Keep in a tightly sealed container when not in use. DO NOT FREEZE.
Packaging - Brush Grade	1 Liter (0.26 Gallon) Kit Part A: 0.75 liters (0.2 gallons) Part B: 0.25 liters (0.06 gallons)
Packaging - Spray Grade	16 Liter (4.2 Gallon) Kit Part A: 12 liters (3.2 gallons) Part B: 4 liters (1 gallons)

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.